

Message Text

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SUBJECT: US-USSR ENVIRONMENTAL AGREEMENT: PROJECT 02.02-12,
PROTECTION AND MANAGEMENT OF THE WATER QUALITY IN LAKES AND
ESTUARIES

REF: STATE 148993

REQUEST EMBASSY PASS FOLLOWING LETTER TO NIKANOROV WITH COPY
TO KAZAKOV:

JUNE 22, 1978 02.02-12

DR. A. M. NIKANOROV
DIRECTOR, HYDROMETEOROLOGICAL INSTITUTE
PROSPEKT LENINA, 61
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NOVOCHERKASSK

DEAR DR. NIKANOROV:

AS I STATED IN MY LETTER OF JUNE 9, 1978, I HAVE SELECTED
MR. BELLANCA, DR. LAMBOU, AND DR. SYDOR TO PARTICIPATE IN
THIS YEAR'S EXCHANGE OF SPECIALISTS. THESE THREE SCIENTISTS

WILL BRING A BROAD RANGE OF MONITORING EXPERIENCE TO THE PROJECT. DR. SYDOR'S RESEARCH INTERESTS TIE TOGETHER REMOTE SENSING STUDIES AND MODELING. HE AND DR. MATVEYEV HAVE ALREADY HAD THE OPPORTUNITY TO DISCUSS THIS IN DULUTH LAST YEAR. TO FURTHER THE PROJECT AND TO PROVIDE ANOTHER SET OF VERIFICATION DATA FOR THE SELENGA PLUME MATHEMATICAL MODEL, I WOULD LIKE TO REQUEST THAT DR. SYDOR'S PROPOSED STUDY BE INCLUDED IN THE PROGRAM FOR THE SCIENTIFIC VISIT TO THE SOVIET UNION THIS YEAR. THIS I STRONGLY ENDORSE, AND ASK THAT YOU TAKE HIS REQUESTS INTO CONSIDERATION AS YOU PREPARE THE ITINERARY FOR THE US SPECIALISTS.

THE TEXT OF DR. SYDOR'S LETTER IS AS FOLLOWS: "AS PER YOUR REQUEST, I WOULD LIKE TO INFORM YOU OF MY SPECIFIC OBJECTIVES FOR THE TRIP. THE CLARITY OF WATER, AND AVAILABILITY OF A LARGE RIVER PLUME AS A TRACER MAKE LAKE BAIKAL IDEAL FOR NUMERICAL MODELING OF TRANSPORTS AND USE OF SATELLITE REMOTE SENSING FOR MODEL VERIFICATION. WE HAVE CONDUCTED SUCH WORK ON LAKE SUPERIOR AND WOULD LIKE TO TEST OUR METHODS ON LAKE BAIKAL. THE WORK WOULD CONCERN IDENTIFICATION OF PARTICULATES IN LAKES THROUGH USE OF REMOTE SENSING DATA AND NUMERICAL MODELING OF TURBIDITY TRANSPORTS.

I WOULD THUS LIKE TO TAKE THE OPPORTUNITY DURING MY VISIT
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TO THE USSR, AUGUST 20-SEPTEMBER 10, 1978, TO ACCOMPLISH THE FOLLOWING OBJECTIVES:

1. THE SATELLITE OVERPASS OF THE SELENGA DELTA WILL OCCUR ON AUGUST 25 (LANDSAT 3) AND SEPTEMBER 3 (LANDSAT 2). FOR THOSE TWO PRIME DAYS, SELENGA DELTA WOULD BE AT THE CENTER OF THE SATELLITE IMAGE. THE ADJACENT DAYS COULD SERVE AS ALTERNATE SAMPLING DAYS IF WE ARE CLOUDED OUT ON THE TWO PRIME DAYS.

PROVIDED THE VIEWING CONDITIONS ARE CLEAR, I WOULD LIKE TO TAKE 24 SAMPLES OF THE SELENGA PLUME. THE SAMPLES (100 CC EACH) WOULD BE USED FOR OPTICAL CHARACTERIZATION OF THE SUSPENDED SOLIDS. THE SAMPLING SITES WOULD BE SPREAD OVER THE TURBIDITY PLUME TO PROVIDE DATA FOR THE ENTIRE AVAILABLE RANGE OF SUSPENDED SOLIDS. I WOULD NEED A VESSEL WITH THE CAPABILITY OF LOCATING THE SAMPLING POSITIONS WITH AN ACCURACY OF ABOUT 50 METERS. I WOULD LIKE TO MAKE, AT EACH SAMPLING SITE, DEPTH PROFILE MEASUREMENTS FOR TURBIDITY, CONDUCTIVITY, AND TEMPERATURE. I WILL BRING AN INTEROCEANS 514D PROBE FOR THAT PURPOSE IN ORDER TO MAKE THE MEASUREMENTS ON BAIKAL DIRECTLY

COMPARABLE WITH LAKE SUPERIOR DATA.

I WOULD ALSO LIKE TO MAKE MEASUREMENTS OF THE TOTAL
SUSPENDED SOLIDS AT THE SAMPLING SITES. IF NEEDED, I

COULD BRING MY OWN FILTERING EQUIPMENT AND FILTERS TO
MATCH FILTER PORE SIZES USED FOR LAKE SUPERIOR WORK. WE
USE 0.45 UM MILLIPORE FILTERS ROUTINELY FOR LAKE SUPERIOR.

I WOULD ALSO LIKE TO MAKE SOLAR RADIOMETRIC MEASUREMENTS
AT THE TIME OF SATELLITE OVERPASS OF THE SELENGA PLUME.
I WOULD BRING WITH ME A PORTABLE NASA RADIOMETER FOR
THAT PURPOSE.

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2. I WOULD LIKE TO OBTAIN FROM OUR SOVIET COLLEAGUES DATA
ON SIMULTANEOUS WATER LEVELS AND WIND MEASUREMENTS FOR A
SEVERE WIND EPISODE ON LAKE BAIKAL DURING THE OPEN WATER
SEASON. I WILL HAVE WITH ME DATES OF THE PAST LANDSAT
OVERPASSES OF SELENGA DELTA TO SELECT A POSSIBLE PERIOD
OF INTEREST."

PLEASE ADVISE US AS SOON AS POSSIBLE WHETHER THIS
PROPOSAL IS ACCEPTABLE. I AM CURRENTLY PREPARING THE
ITINERARY FOR YOUR VISIT TO THE US AND AM LOOKING
FORWARD TO A SUCCESSFUL YEAR OF SCIENTIFIC COOPERATION.

SINCERELY,

TUDOR T. DAVIES
US LEADER
PROJECT 02.02-12. VANCE

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NNN

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